

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997
From: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
Subject: [14803] 30m fm
Message-ID: <199703160039.TAA22371@aus-b.mp.campus.mci.net>

Has anyone else been hearing the FM broadcast on 30m (10.113)?
It is sorta having a detrimental effect on reception of qrp signals
(or qro, for that matter).
...rich

Rich Dailey - KA8OKH <ka8okh@som-uky.campus.mci.net>
The KA8OKH Web - www.qsl.net/ka8okh
qrp-l #933 ars #223 amsat #11900

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997
From: kb0rol@juno.com (Bradley L Mugleston)
Subject: [14829] 38 Special
Message-ID: <19970315.222703.7271.0.kb0rol@juno.com>

Hi,

Well my busy season is getting over, I get to be the Fox Monday Night
(Monday night Local) and I hope to be able to finish my 38 Special soon.
I asked a question awhile ago but got no replies - I know sometimes
everyone gets busy at the same time so I'll ask again.

I would like to use my O'scope to test my Special but I don't have the
foggiest idea where to start (Got the scope at a swap fest for \$5 and it
seems to work okay). Anyone out there with any suggestions? Even a
simple one would be fun.

Thanks and I'll see you all Monday night at 7.112Mhz 0200 to 0400Z.
de

Brad Mugleston - KB0ROL
Colorado QRP Club # 170, QRP-L #316, ARRL
QTH - Aurora, CO - DM79oq
KB0ROL@JUNO.COM
BMUG@GWL.COM

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997
From: Brian Kassel <bkassel@dancris.com>

Subject: [14804] 38-S mini expedition to NV
Message-ID: <199703160053.RAA14765@dancris.com>

Gang:

I'll be operating my 38-S from about 1900Z 3-16 to about 0200Z 3-17 (Zulu Date) mobile on a trip from Phoenix AZ to Las Vegas NV. I plan to try to hang around 10.116 as much as possible. I should be on the air for the entire duration of the trip, except for pit stops. My wife is driving up and back.

The 38-S has the 5 W mod, and the antenna will be a Hustler, magnetically mounted mounted in the center of my Father-In-Law's Crown Victoria, so I should have a decent ground plane.

The return trip will begin around 2000Z 3-18 and end about 0300Z 3-19 (Zulu Date).

Thought maybe someone out there might get a kick out of working a 38S mobile.

Man, it sure is real fun little critter.

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*****
* Brian D. Kassel W5VBO - QRP NERD 10 - ScQRPion # 0 *
* QRP-L #404 - ARCI #3623 *
*****
```

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997
From: Wayneb1103@aol.com
Subject: [14836] 38S
Message-ID: <970316020249_-1706350186@emout08.mail.aol.com>

For those who are having trouble finding a moulded 6.8mH choke I was wondering why one couldn't be wound on a T50-2?

Is there some reason that you wouldn't want a torrid to be used as a choke?

Wayne WB7WHI
Spokane, Wa.

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997
From: scott.thomas@circellar.com
Subject: [14857] 38s Efficiency
Message-ID: <9703161244.0HVZ400@circellar.com>

With the 510 running 3watts, my efficiency is about 30%. I'm curious what others have found theirs to be.

Also, anyone know what their efficiency was before the irf510 was?

Scott

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997
From: Jess Gypin <jessqrp@concentric.net>
Subject: [14827] 38S in case and DX on 40 meters.
Message-ID: <332B7962.3133@concentric.net>

Hi All,

I tried all day to think of something really different to put the 38S in but could not. I decided that I would run down to RS and see what they had as the local parts house does not have a good selection of cases and they are really expensive there.

I picked up the RS modem project box and sized it up against the 38 board and it appeared about the right size, although it could have been a bit taller. Got it home and how about that, the inner screw bosses for mounting whatever board that they had in mind fit two of the four PC board holes. I drilled two more 4-40 size holes and had the board mounted about a 1/4 inch off the bottom of the case. I am using the RS pots so they are kinda bog so I offset the board closer to the back than the front. By the time I got the pots mounted and the BNC connector, keyer plug, and power plug mounted on the panels, and the fuse holder mounted inside, this box was full! Not real crazy about how it turned out, especially after looking at the packaging job on the "Drake 38S" on the Norcal Web Page WOW! but it looks ok and works ok. I am not sure that the radio really still works as I got it done late that the band was D_E_A_D! Will give it another listen tomorrow. I had the pleasure of working KD7S and his rig today before I stuck it in the box. I am still wondering why some of the rigs chirp with the RIT mod and why some thump and some of them don't! Anyway, it is in a box with a fuse protecting it and I feel better. I was afraid that I would spill something on it or short it out or something. I never have liked wiring a rig to test it and then rewiring it to put it in the box. After heating and reheating

the connectors on all of the bits and pieces, it just never looks as good and fresh as the first time that you hook stuff up. I will make an attempt to see if it is still working tomorrow and then maybe try to dress the wiring a bit.

I am on 40 meters and calling CQ at 7040 and had a nice suprise. KH6CF answered my CQ and I got a 579 from Honolulu, not to shabby. He was a 599 but was running about 600 watts too! Band is real quiet and real long tonite. I do not hear too many sigs on the band but must be in good shape as the contact in HI illustrates.

0400 Zulu here now. I am on 40 meters calling at 7040 with very few responses. If you are up, give me a yell!

Best
Jess N0TFI

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997
From: scott.thomas@circellar.com
Subject: [14815] 38S Story
Message-ID: <9703152126.0U40601@circellar.com>

Yet another is born. At first there was no receive, a cold solder was found on one of the 4007 diodes. Then there was receive but no twin peaks. Reducing the secondary on T1 from 19 to 17 turns produced two peaks, but so did 18, so I went with 18 turns. With a 4.7uh L1, the range was 107 to 127. With a 6.8 it was .085 to .125. With a 5.7 it was .96 to .126 -- fine I'll stay with that. Output was about 230mw. 2nd call yielded a mid western QSO (I'm in N.E.) received a 599. Nice sidetone. Nasty keyclicks (the infamous thumps). I'll leave well enough alone even though I bought the IRF510. ...Hmm, well family won't be home for a few hours might as well give it a try. Review the QRP-L mail; lots of choices. I think I'll go with K8IQY's suggestions from 02/23/97 for the final amp. Gave it a try and a nice clean 3 watts out, and it does run cool for somewhere around 20 seconds -- and that's without a heat sink. I answer a CQ. No response, but a OE5 calls me!

I really want to get rid off the key clicking/thumping that I hear with the sidetone. Please e-mail me with testimonials if you've corrected this on your radio. Those having problems; my word of encouragement for you is "don't give up!". If I can get it working you can too.

Scott

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997
From: johnmars@mindspring.com (John Marshall)
Subject: [14813] 80m QRP DX now
Message-ID: <v01540b00af5104be4950@[207.69.166.116]>

I just had a nice 2xQRP QSO with Dave, G0VGF on 3560.2. He's got a respectable signal here in NC and is calling CQ looking for QRPers on this side of the pond (at 0200 UTC).

John, KU4AF

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997
From: wb2vuo@juno.com (William K Hibbert)
Subject: [14824] : Re: 30m fm
Message-ID: <19970315.231244.4679.0.wb2vuo@juno.com>

>Has anyone else been hearing the FM broadcast on 30m (10.113)?
>It is sorta having a detrimental effect on reception of qrp signals
>(or qro, for that matter).
>...rich
>

>-----
>Rich Dailey - KA8OKH <ka8okh@som-uky.campus.mci.net>
>The KA8OKH Web - www.qsl.net/ka8okh
>qrp-l #933 ars #223 amsat #11900
>-----
>
>

You bet I have, and I am glad to see a post that someone else is hearing it! I thought I had a local QRM problem out here in the Depths of the GBS. It's bad enough that the local church has a wireless mike on 145.795 MHz (yes, they hear me JUST FINE !!!), but FM on 30 Meters??? What's next, truckers on 3555 KHz, Oh yeah, I forgot... They are already there :-)

72/73, Keith, WB2VUO, QRP-L #582, scQRP 40, Tech Specialist (ARRL/WNY),
ARRL Life Member, VP/BARK, Beacon Chaircritter, Rochester VHF Group
Trustee, KB2YTW/B 10 Mtr QRPp Beacon (250 mW @ 28.2870 MHz)
"In the Depths of the Great Bergen (NY) Swamp...FN13ac"
Packet - wb2vuo@w2im.#wny.ny.usa.noam
Email - wb2vuo@juno.com

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [14843] An-Ten-Ten-nas on-line
Message-ID: <Pine.SOL.3.94.970316090127.14930A-100000@utkux4.utcc.utk.edu>

Some folks have asked me to place the columns I have been doing under the name An-Ten-Ten-nas on the web. Well, there is too much material there to place them at the lehigh site, so I have begun to place them at my own site. Number 1 to 11 are on line, and 12 should be up before the end of the day. I shall add columns as soon as they are published, although a few advance titles appear in the table of contents.

To access these columns (if you cannot find your back issues of 10-10 News), you can go directly to
<http://funnelweb.utcc.utk.edu/~cebik/anta.html>

For the complete list of antenna and radio items I have placed at the site, use the URL at the bottom of the signature line and go to the end, under Tales and Technicals.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\	/\	*	/	/	/	(Off)	(423)	974-7215	
1434 High Mesa Drive	/	\	\	\	----	/\---	(Hm)	(423)	938-6335	
Knoxville, Tennessee	/\	\	\	\	/	/		(FAX)	(423)	974-3509
37938-4443 USA	/	\	\	\	\					cebik@utk.edu
URL: http://funnelweb.utcc.utk.edu/~cebik/radio.html										

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997
From: n0acs@juno.com (John R. Morris)
Subject: [14864] Announcement FT-243 Crystals
Message-ID: <19970316.140236.5471.1.N0ACS@juno.com>

OK Fellow amateurs, I am bowing to your requests and have made arrangements to provide the FT-243 style crystals. They will be available at reasonable prices. I will be posting an announcement with details within the next 2 weeks.

Hope this puts your mind at ease. If any of you have FT-243 xtals with "good" holders I will plan on allowing a credit for re-working your holder, or allow exchange credit.

If anyone has crystals in the FT-243 (excluding RCA type with the 2 screws through the bottom of holder), HC-12/U, CR-1A/AR, or DC-30 type crystals you would like to sell in any quantity please send me a list of what you have available.

I am especially interested in freqs. in the 3.0 to 3.5 Mhz, 6.5 to 7.0, and 9.0 to 10.0 Mhz ranges.

I am well aware of the "void" which was left by Bob's closing CW crystals.

Most of you do not know the story of how Bob could still sell crystals to us amateurs at the prices he was able to for so many years. Well Bob and his wife were very "lucky" in being able to make purchases of large quantities of surplus crystals at the closing of WW-2, from the government. This allowed him to supply us with his crystals, always at reasonable prices, in what I would best describe as "a labor of love". The crystal stock he had that was on freqs. inside the amateur bands were depleted long ago, however, Bob continued to "cut up and re-grind" his remaining stock so that he could continue to provide us with crystals.

As he has told me he had reached a point where considerable time was required to now re-work these "odd-ball" blanks and the availability of a continuing supply of the FT-243 holders was becoming "critical" to his needs. With the passing of his wife of many years (who did all the final frequency adjustment, and made sure the xtals had the proper amount of activity before she would ship them) Bob could no longer continue with "his labor-of-love" to his fellow amateurs. I have made arrangements with him regarding his stock, and hopefully when he overcomes his "loss" we will consummate this endeavor.

In the meantime I have made other arrangements to try and "fill-this-void" and carry on with supplying the FT-243 type crystals. I welcome your help and support in attempting this, and will hope to hear your suggestions as I progress in this effort.

I'm sure Bob would welcome a short note from any of his long standing customers if any would stop and take the time to tell him "they appreciated his labor-of-love on their behalf".

73/ John/Phoenix Crystals

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997

From: k5hj@juno.com (Charles R. Ott)
Subject: [14831] Another Ten-Tec 1330 is on the air!
Message-ID: <19970314.232045.10102.1.k5hj@juno.com>

Here's the run down:

Ordered the kit from Ten-Tec Tuesday afternoon.
Received the kit Thursday morning. (A lot sooner than I expected)
Built the kit Thursday night.
Tweeked and aligned Friday. (At work ... getting about 3 watts out with 12V p.s.)
Put up 30 meter dipole Saturday afternoon. (Not really tuned yet, way too long)
First QSO: worked 3DA0CA at 0430Z Saturday night. (Swaziland)

Enough said?

I am planning to put together a report on this kit soon and post for all those who are interested. Pretty neat little box.

BTW: been off the air for a few years, boy does the fist (and brain) get rusty. I was not really sure what the signal report was from 3DA0CA. Hi hi.

Charles R. (Randy) Ott - K5HJ - QRP-L #1040
Duncanville, TX
k5hj@juno.com
Send Email with attachments to isc@fastlane.net (Juno can't handle them)

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997
From: nskouen@scientechn.com (Niel Skousen)
Subject: [14875] Antenna questions & FS/Trade
Message-ID: <v01510104af52270f3ac4@205.180.127.126>

I have an antenna question, looking for the practice / 'done that' kind of feedback. I just bought a used B.Nut HF6VX and will be ground mounting it w/ 8 ea 25' radials. I'm considering mounting the base/feedpoint at 1-2m above the ground and running the radials down the pipe and then flaring out at 3" underground. I'd like to get the feedpoint and matching coil above the grass and dog level.....

I've run some EZNEC simulations using medium ground. All the simulations say it would work, but there will be some impact to resonant length (perhaps enough to make it not workable with a multiband antenna on 15-6...)

Any Feedback? Anybody down it ?

I also have an interesting mil-surplus antenna that needs a new home. I do not have a good feel for the value and would entertain a trade (have been looking ot get back on 6m) Antenna is a JASCO 24/87 LogPeriodic. This could be a terrific Field Day antenna. The antenna is very similar to the 'spider' LPA's in the Handbook and Antenna Book. Comes in two OD green field packs 4' x 10"dia, one is the mast and base, the other is the antenna proper. It is rated from 24-88 Mhz (Military VHF-Lo), but I suspect it would be relatively straight forward to extend it to 15m, and possibly to 20m.

JASCO 24/87

Freq: 24-88 Mhz (min)
gain: 6.5 dB
mast: 6m collapsable

Any offers ?, any thoughts? , any trades ?

TNX Niel

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997
From: "Bob Edwards, W4ED" <rbe@atlanta.com>
Subject: [14814] Backpacking Antennas
Message-ID: <332B9282.1464@atlanta.com>

To those interested in such antlers, and have not looked at the 40m/20m wire vertical on the TRF page, here is its WWW address:

<http://members.aol.com/aa7qu/tfridx.html>

Look at entry #2, the last half. This antenna does not need a tuner, but it does use a 300 ohm Q-section on 20m.

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Bob 72/73

W4ED x_AE4CA nr Atlanta @EM73wt
...."QRP", more from less....

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From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: n4so@juno.com (CHARLES K BROWN)  
Subject: [14838] DX posts  
Message-ID: <19970316.025228.4415.4.n4so@juno.com>

YB0ARA/9 Phil in Timika , 7.003 working Cuba at 0845Z  
Signals s3 to s4.

Ken Brown, N4SO  
QTH Near Mobile, AL  
QRP-L #622  
n4so@juno.com

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: Jim Bennett <jbennett@ebmud.com>  
Subject: [14861] FS: MFJ 948 Tuner  
Message-ID: <332C477B.7A9A@ebmud.com>

This was an item in my post on Saturday, and had been "taken" as of Saturday evening. However, the buyer had a change of heart, and its now back on the selling block!

MFJ 948 Deluxe Versa-Tuner II. Has switchable 0-30 and 0-300 watt ranges.  
Handles multiple antennas. Can be set in "bypass" mode for pass-through operation. Uses a single Daiwa-style dual needle meter showing forward and reverse power. The meter can be illuminated with the connection of a 12VDC line to the jack on the rear panel. Sent with manual and original box. This unit is less than a year old and is in perfect condition. Cost \$129.95 when new.

Price is \$80 - firm, sent post-paid to any US address.

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*-----*
|                Jim Bennett / W6JHB                |
|                jbennett@ebmud.com                  |
|                Martinez, CA                        |
|                                                    |
|  NWQRP #431      QRP-1 #596      ARRL Life Member  |
|                                                    |
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From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: timcook@erinet.com  
Subject: [14869] FS: OHR-400/DD1  
Message-ID: <332C6024.2DFE@erinet.com>

OHR-400 with the DD-1 digital display. Exc condition, no marks or scratches. Both units work as advertised. have power cords and all documentation. Will ship for \$255. may consider taking a single band 40m rig as part trade. Please email direct  
Thanks  
Tim  
NZ8J

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: N3BJ@aol.com  
Subject: [14854] FS: QRP XCVRS  
Message-ID: <970316115726\_-1638832031@emout03.mail.aol.com>

To make way for some other stuff, have the following for sale:

Yaesu FT301SD qrp HF xcvr - with manual, needs work, digital display not working, needs main tuning knob - more details on request - \$175

A&A Engineering 20M xcvr - with manual, built, needs ICs (commonly available) - \$75

A&A Engineering 30M xcvr - unbuilt, in box - \$125

Heath HW7 - with manual, good physical condition, needs transistor replaced - \$65

Heath HW8 - no manual, looks and works great - \$100

A&A Engineering keyer kits (qty.2) - unbuilt, in box - \$20 EA

Just don't have the time to work on these....

Alan, N3BJ

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997

i want to that the responses i recv'd from all. one great guy is sending me one.  
again thanks to all...  
Thank You

|                                             |                                                                                                                                              |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Trying for WAS -<br>and worked these:<br>WI | AL, AK, AZ, AR, CA, CO, CT, FL, GA, IL, IA, KS, KY, LA, ME, MD, MA<br>MI, MN, MT, NH, NJ, NY, NC, ND, OH, OK, OR, PA, RI, TX, VT, VA, WA<br> |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: John Dorson <jdorson@bbs.mpcs.com>  
Subject: [14851] ft50-43 needed  
Message-ID: <199703161639.LAA00005@bbs.mpcs.com>

john dorson  
3236 sand dunes court  
melbourne beach, fl 32951

|                   |                                                                    |
|-------------------|--------------------------------------------------------------------|
| Trying for WAS -  | AL, AK, AZ, AR, CA, CO, CT, FL, GA, IL, IA, KS, KY, LA, ME, MD, MA |
| and worked these: | MI, MN, MT, NH, NJ, NY, NC, ND, OH, OK, OR, PA, RI, TX, VT, VA, WA |
| WI                |                                                                    |

|-----|  
K2JHU only QRP... CQC #351, GQRP # 9092, QRP-L #672

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: wager@juno.com (James W. Cates)  
Subject: [14847] HamStick/BugCatcher  
Message-ID: <19970316.073834.3878.4.wager@juno.com>

I use a HamStick mag mounted on the roof, and work 90% of stations I call, even 1 watt stations during QRP contests where I have been mobile. I find it agonizing to think this antenna is 10db down as compared with a catcher of bugs. If this is real life, then I just lost my bragging rights. Oh Poo! jim, WA6GER.

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: wager@juno.com (James W. Cates)  
Subject: [14848] HamStick/BugCatcher PostScript  
Message-ID: <19970316.073834.3878.7.wager@juno.com>

I should have added that my HamStick is the forty meter one, and yes, it will tune down to 7025, at least (some won't), and my rig is the original NorCal kit, NorCal-40. Jim, WA6GER.

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: martin38945@juno.com  
Subject: [14834] HELP WANTED IC-502 reconditioning  
Message-ID: <19970316.010927.3350.2.martin38945@juno.com>

Dear Friends,

I am reconditioning an IC-502 6m QRP portable. If there are any other owners out there... I would like to hear from you.

Please help with the following:

1. Pin out for mic. Info on appropriate mic type.
2. Service Manual. I will gladly pay a fair price for a Service Manual.
3. Source of parts. Need to replace broken telescoping whip.

4. Any interest in my 50 to 14 Mhz transverter circuit for the IC-502.  
It worked in 1977.

It could easily be multi-banded?

5. Anyone have a junker 502 they would sell me for parts?

Thanks to all.

vy 73,

Martin W9XN

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997

From: w7rfm@juno.com (John E Hirsch)

Subject: [14833] HW-8 Wanted

Message-ID: <19970315.215542.2710.1.w7rfm@juno.com>

I am looking for a HW-8 rig. I have heard a lot about them and want to use as first QRP rig. Also any one having the paper work for the 49'er, ie parts list , diagram of board, etc, I would also like to obtain a copy of these so that I can start stock piling parts to build one. I have heard that some one will be makeing the boards for them and selling them very soon.

Thanks

John , W7RFM

E-Mail W7RFM@Juno.com

fax 206-661-7611

phone eve and Weekends 206-874-6286

Days 206-838-2658

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997

From: teixeira@ccnet.com (T E I X E I R A)

Subject: [14855] Info needed on 38 Special

Message-ID: <v01520d00af516c0d0796@[206.80.32.139]>

Does anyone have Jim Cates email? Does anyone have the status on the 38

Special kits. I sent a check in early Feb. and I still have not recieved a kit yet.

Thanks,  
Don W6IQ

"Let my inspiration flow  
in token rhyme, suggesting rhythem  
that will not forsake me  
till my tale is told and done"  
..... Robert Hunter

Acoustic Music <http://www.ccnet.com/~teixeira>

Amateur Radio <http://www.ccnet.com/~teixeira/W6IQ.html>

Calf. Indian Storytelling Fest.  
<http://www.ccnet.com/~teixeira/story.html>

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: Jim Bennett <jbennett@ebmud.com>  
Subject: [14816] LDG QRP Tuner  
Message-ID: <332B5D17.638B@ebmud.com>

Gang - just wanted to let everyone know about my experience with building the LDG QRP Autotuner. In a word - super!!

I assembled it over a two week period; was interrupted by work (^%\*%\$/#\$) and a woodworking project - building a clock out of red oak. Anyway, I can say that it was a VERY easy kit to assemble, manual done well, and the parts were all present; it was easy to locate their "homes" on the board.

I had one question on the identification of the LEDs and mounting them on the front panel. Sent an e-mail to LDG and got a very prompt reply from them with the info I needed. The tuner aligned easily with my digital VOM (an analog model would work too), and worked perfectly right from the get-go on power-up.

Have not yet had a chance to try it out with various wire antennas, only my six band vertical and Cushcraft A3S yagi. I tried it behind my Icom IC-775DSP and with the 38 Special at 3 watts. Works great!

If you are looking for a very nice looking and quick tuning autotuner, I think you'll like this piece of equipment.

No association with LDG, etc.

(Thanks Scott Rosenfeld / NF3I for the group buy effort on the LDG tuners - much appreciated.)

```
*-----*
|                Jim Bennett / W6JHB                |
|                jrbennett@ebmud.com                 |
|                Martinez, CA                       |
|                                                    |
|  NWQRP #431      QRP-1 #596      ARRL Life Member  |
*-----*
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From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: "Jeff M. Gold" <JMG@tntech.edu>  
Subject: [14878] learn to read directions  
Message-ID: <01IGKTKELOYA8WW799@tntech.edu>

Well.. my fault again :-(

I reread the directions..for the N38S and of course it was in there :-)  
It clearly and in plain English described what was going on. If  
only I would learn to read the directions that people spend so  
much time writing

73

Jeff, AC4HF

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: k5hj@juno.com (Charles R. Ott)  
Subject: [14830] Looking for QRP gear  
Message-ID: <19970314.232045.10102.2.k5hj@juno.com>

Really have been bitten by the QRP bug. I know this list is not a  
buy/sell list but I think this is on topic. I have a couple of items  
that I would like to turn into QRP equipment. One is an AEA PK-232 multi  
mode controller that does packet, CW, AMATOR, WEFAX, etc. I also have  
the PC host software for both packet and WEFAX. Would rather have a HW-9



or simular rig. Also have an MFJ 1274 packet box. Whatcha got to trade?  
Any reasonable offer will be considered.

Thanks

Charles R. (Randy) Ott - K5HJ - QRP-L #1040  
Duncanville, TX  
k5hj@juno.com

Send Email with attachments to isc@fastlane.net (Juno can't handle them)

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: jayboy@psnw.com (Jay & Jackie)  
Subject: [14849] Mercury Paddle Info  
Message-ID: <199703161556.HAA02456@sierra.psnw.com>

To those who e-mailed me direct and wanted the source info on the Mercury  
paddle, call or write (w/\$1) for all the low-down to:

Steve Nurkiewicz  
1385 Abner St.  
Port Charlotte, FL 33980  
(941) 743-3139

Jay, W6JDB

\* No connection to Steve, but most certainly made a house/boat payment for him.

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: Jack Mc Kie <mjmckie@frontiernet.net>  
Subject: [14873] MFJ and Ramsey QRP transceivers?  
Message-ID: <199703162215.RAA13554@node1.frontiernet.net>

Have any of you had experience with either the Ramsey QRP  
transmitter/receiver kits or the MFJ QRP transceivers?

73 Jack Mc Kie KC2BBW

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997

From: nskousen@scientechnology.com (Niel Skousen)  
Subject: [14877] N/T Fox Report  
Message-ID: <v01510105af522b674013@[205.180.127.126]>

Well my final fox night kind of fizzed. Kent Torrell had posted a solar activity notice earlier in the day, I hope that was the reason !! :-)

The band was very noisy, with an on freq. carrier from 0210-0230. Sometime about 0230 someone flipped the switch and the band was gone w/in 10 min.

Thanks to those who hung in and made it work for me, and Thanks to all those who endured with out a contact.

3/13/97 0200-0400Z 7.112.5 & 7.121.5

0205 W9UQB 599 559 AZ Mike 492  
0208 W7GVN 479 579 AZ Rod 849  
0215 KR0I 449 239 M0? Ed 037  
0220 K?4YSK 228 559 IL ?? ?90 ; heavy QRM and then you were gone...

Thanks to all for a really neat experience this year in being on of the novice foxes. Hope to see you down at 7.040 and on 30m soon....

TNX agn from N/T Fox WA7SSA

72  
Niel

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: "Jeff M. Gold" <jmg@tntech.edu>  
Subject: [14844] N38S-on the air  
Message-ID: <332C054C.1EA2@tntech.edu>

Howdi,

my N38S is no longer a virgin. Saturday morning tried to get on the air. Noticed tuning and rf gain weren't quite right. That is what I get for using junk box pots. Went to the big city and visited RS. Got a 100k linear taper and found a new 58K with on off switch in other junk box area in cave.

Tried different values of R17 for sidetone. Thought if I reduced the side tone, maybe thump would be less noticeable. It was the other way on my unit. Put back in the 270K resistor.

Replaced these parts, checked out sine wave and receive tuning. Put case back on.

Things are much better. Tuning is certainly not linear. Most of the band is within a short tuning on the beginning side of the 100k. The tuning doesn't appear to be finicky, and I don't have a problem at all.

The 30m band here is terrible lately. Only real clear signals are digital. but finally heard someone calling CQ.. got him first try. He was 449, I got a 579, using my Gap and putting out about 3.5 watts (battery power). He was on a new TT QRP rig. It sounded good. Talked for a while till the band got worse.. I kinda had lost him, before he lost me.

so far-so good.

72,  
Jeff, AC4HF

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: "Jeff M. Gold" <jmg@tntech.edu>  
Subject: [14846] n38s-Reciever (DC?) Help!!!  
Message-ID: <332C1264.50DD@tntech.edu>

Well, while messing with my N38S this AM, noticed I may have a problem.. well do have a problem. I noticed that the receiver tunes like it is a DC receiver.. I get both sides...

Help solving this would be appreciated.

72  
Jeff, AC4HF

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: "Carol N. Wright" <cnw@HiWAAAY.net>  
Subject: [14870] NC38S, problems!  
Message-ID: <Pine.OSF.3.94.970316150925.32659A-100000@fly.HiWAAAY.net>

Hey Gang,  
I'm sorry to be taking up all of the bandwidth here. I ran a few more

tests. The 38S is not doing the squeal thing right now. I get a nice sidetone now when I key. The voltage on receive is right on the TR1, but on transmit it is about a half volt low. D1 and D2 are reading about 5 volts on receive, not suppose to, suppose to be 0 volts receive, and 8 volts transmit. It is doing the 8 volts on transmit though. D6 is reading 8 volts on rcv, 0V on transmit. Also D3 is reading almost 8V on rcv, it does vary with the tuning pot. So that's working. Like I said, I hate to take up the bandwidth. SORRY, BEAR WITH ME GANG!  
Best 72 DE Matt, AE4JM

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: "Carol N. Wright" <cnw@HiWAAAY.net>  
Subject: [14862] NC38S, still problems!  
Message-ID: <Pine.OSF.3.94.970316132736.14478B-100000@fly.HiWAAAY.net>

Hey Gang,  
Well, I'm still having trouble with my NC38S. Ori sent me the troubleshooting guide to the NC38S, looked over it a little. I did do the 5 watt mod. When I would transmit it only puts out a couple hundred milliwatts, about the same without the mod. So I did the mod a few minutes ago by K1MG, Mike. Well I made a little sheet with the mod, the troubleshooting guide and all of the connections to the pots, connectors, etc. I just found that I had the coax hooked up wrong to my BNC connector. So coming off of the board, the center went to 2 instead of 1 and the ground was to 1 instead of 2. I guess this might of blown the IRF510? Also, how is it you test the 510 to see if it is open. I know you check for continuity from pins, but from which to which?

Like I said above, I did the 5 watt mod with the mod to the mod by K1MG. Now when I apply power to the rig, I get a loud squeal, like a duck quacking. Hee Hee! It is pretty loud. Any suggestions? I didn't try to transmit. I did reverse the coax connector, it is right now. Center to 1, gnd to 2. What could this be? I removed the R101, put a piece of wire on the c101, after removing the .1 cap. Added a 100pF cap in parrallel with the 220pF at C26, which made it 320pF, 10pF lower than suggested, but someone mentioned anything would work between 300pF and 330pF. So any comments? Any help much appreciated. Thanks, Best 72 DE Matt, AE4JM

--

JCARC--ARCI 9178--ARRL--ARRL ORS--Ten Ten 66932--VP 2855--WAS  
Matt Wright, ph. (205)228-6547, packet: AE4JM@K4BFT.#HSV.AL.USA.NA  
email: cnw@HiWAAAY.net snail mail:8679 Co. Rd. 19, Section, AL 35771  
Rigs built: Ramsey mini rcvr-40mtrs, NC38S, SW30-40, NC49'er, NC40A with KC1

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: Bill Todd <bill@techline.com>  
Subject: [14852] Need WA6ERB/VE2DRB E-Mail Addr  
Message-ID: <1.5.4.32.19970316164451.006923d8@mail.techline.com>

Hello group -

Does anyone on the list happen to know Bob Gobrick's E-Mail address?

A recent message to him bounced, so I wonder if he had changed it...

CUL, Bill-N7MFB

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: "Brian J Keegan" <bkeegan@viconet.com>  
Subject: [14841] NJ-QRP Web Site is Down  
Message-ID: <199703161200.HAA00200@mail.VICONET>

To all who are having problems getting into the NJ-QRP site  
a message was sent to all NJ-QRP members yesterday morning  
stating there were hardware problems at the host site.  
Seems they can't get anybody into check it out until Monday  
at the earliest.

Brian KF2HC

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: Bob Tellefsen-CNSE97 <Bob\_Tellefsen-CNSE97@email.mot.com>  
Subject: [14820] noise  
Message-ID: <M1338580.001.48190.1.970316025332Z.CC-MAIL\*/OU=LMPCC10/OU=ILBE/  
PRMD=MOT/ADMD=MOT/C=US/@MHS>

John:

I have the ANC4 and the NIR 12 and the DSP 59+, and I can confirm there are no magic bullets. The secret to the ANC4 is placement of the noise sampling antenna. You have to get it as close to the source you are trying to reject as possible. You want the shortest sampling antenna possible, consistent with enough noise pickup. You are trying to minimize desired signal pickup, because

the end result of the process is nulling out noise plus desired signal. So max noise and min desired through the sampling antenna is what you need.

In addition, I do a lot of tinkering with various low noise receiving antennas, trying to hear these elusive QRP signals.

My main antenna is a vertically polarized diamond loop on 40m, on a 50 ft TV mast. Being vertical, it does receive noise very well. I also have a horizontal loop strung on the roof of my house. Sometimes significantly better, sometimes not. That's the story of every solution, sometimes they work, sometimes they don't. The more alternatives you have, the better chance of finding the one that works at that moment.

For low noise receive antennas, I have the one from QST, September '95, I think it was, by Brian Beezley W6STI(?). It certainly works at certain times. I also have a 30m half square, which oddly enough will be my most quiet ant on 40m, at certain times. I also have a very low 40m dipole, tacked on my wood fence about eye height. Sometimes it is my best receiving antenna.

The problem is that we never get to deal with a single noise source. It is a moving target, and requires a stable of solutions.

I'm still working on low noise receiving. There were a few articles a while back in QST about the EWE antenna as a low noise receive antenna. I will be tinkering with a pair of them with phasing this summer to see what I can arrange. Probably need to build a receiving preamp, as most low noise receive antennas also have relatively low output levels compared to a high dipole.

Hope this gives you some ideas, John.

73, Bob N6WG

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: "Phillip S. Rutledge" <rut@mcrut.mv.com>  
Subject: [14850] Paddles, Paddles, Paddles!  
Message-ID: <199703161639.LAA19982@bort.mv.net>

Hi All,

Having just bitten the bullet and ordered a Mercury paddle by N2DAN, somethings's gotta go lest I have to mortgage the house and the family jewels. (mine no doubt)

So, here's the list:

- \* "V2L" by WB9WBL complete with cord and plug. Unique "vertical" design

featuring attractive Coco Bolo wood paddle tips. E.C. throughout. \$75.00

\* "Bencher" iambic (black base) with cable/plug-- \$45.00

\* "Heath HD-1410" in excellent condx. \$45.00

\* "Hamkey" straight key on gray hammertone base. Coiled cord & plug.  
\$30.00

\* Combination iambic/straight key assy. Now this one is a bit unusual, and features two separate sending units on a common base. The left side has an iambic paddle with red finger tips. It actually has a decent "feel" to it. The left side has a straight key with top that slides back to expose inner workings. The keying arm has a joint about mid way, allowing the operator to key it straight on or off to the side. The dataplate atop the straight key appears to be written in Japanese. The shared base is heavy, attractively "veined" marble and is 4.5"x7" in size. It would appear this unit was made in the 60s sometime, and would be an interesting addition to someones collection. Includes cable(s) and plugs \$75.00

All prices above include shipping CONUS.

If interested, pls. e-mail me direct or call (603) 673-7204

Thanks & 72/3== Phil (K1HS)

=====  
Phil Rutledge--K1HS-- rut@mcrut.mv.com

ARCI#9265=Norcal#1797=N.E. QRP Club#489= QRP-L#820= CQC# 385  
=====

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997

From: NilsBull@aol.com

Subject: [14835] PRINTSHOP DRIVEL (Delete now): Pearls before Hoosiers +c

Message-ID: <970316013008\_1150385742@emout02.mail.aol.com>

I got back from Churchman's Sterling TF late this afternoon with parts to repair the old Pearl press that I'd picked up a couple weeks back.

Dave had 8 Pearls in the place. Only one of 'em didn't have a crack somewhere that had been brazed closed. All of the five that still had throw-off levers had signs of the throw-off levers being brazed from a break somewhere. There were only two out of the 8 that had not been cannibalized for parts somewhere

or the other. It was pretty weird. I found half a throw-off lever laying on the floor next to a semi-disassembled Challenge Gordon.

So the tale continues. Kinda makes me wish that I hadn't given Tom Ebbert that 1875 Franklin Gordon that I had. That was a true treadle jobber. Nice press. Weird size though: 9x12. Maybe I can talk him out of it. I told him I'd trade him the Intertype for the Gordon flat. No response.

Now if only I could get the high power mod for the NC38S to work as easily as I conned Dave out of those parts. . . . Which reminds me: has anyone come up with the all-purpose, kick-butt, one-time, all-encompassing fix to the smoke escaping from the 5w power mod yet? I think I've read about 6 or 7 different versions of it. Talk about repeat messages... repeat messages... repeat messages... repeat messages... repeat messages... repeat messages...

73  
Nils  
WB8IJN +c

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: "Brian K. Short KE7GH" <ke7gh@primenet.com>  
Subject: [14871] QRP Rig(s)  
Message-ID: <3.0.32.19970316213106.006f384c@mailhost.primenet.com>

Received below probably as result of Want Ad on Virtual Hamfest WWW.  
Somebody else actively in pursuit of same? 73, Brian ke7gh@qsl.net  
(I have no interest, at this time...)

>From: KK5LU@aol.com  
>Subject: QRP rig HW8  
>I have a Heathkit HW-8, which doesn't transmit, but receives some bands.  
>I bought it in that condition and I have tried to diagnose its problems.  
>It cost me \$65 and that is what I would sell it for, plus any shipping.

-----  
>From: "Darryl J. Kelly" <kk5ib@insolwwb.net>  
>Subject: QRP Rig  
>I have a MFJ 9015 15 Meter 5 watt CW rig.  
>I bought it new in the box, and have had it on  
>the air about 2 hrs. Asking \$130 shipped.  
>kk5ib@insolwwb.net (501) 932-1891  
-----

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997



From: Bob Hightower <ki7mn@dancris.com>  
Subject: [14828] QRP-ARCI Banner/Sign  
Message-ID: <199703160509.WAA04267@dancris.com>

I remember seeing something on the list a looooong time ago about a QRP-ARCI banner or sign that could be made available for special events, etc. I think Mike C had it, or sent the note.

Could whomever has information on this please e-mail me with the details? We (AZ ScQRPions) plan to have a couple of spaces at the Ft Tuthill Hamfest late in July and would like to have such a sign available. Also one for the Internet QRP club, if available.

Please respond privately so as not to take up too much bandwidth.

73,

Bob, KI7MN Chandler, AZ ScQRPion QRP-L #271, NorCal #1228, CQC #274, QRP ARCI #8918, AK QRP #30, not in any order of importance.

<http://www.dancris.com/~ki7mn>

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: N4JS <n4js@usa.net>  
Subject: [14821] Questions  
Message-ID: <v03020901af5113b9c115@[206.106.174.44]>

Wow, my fingers are sore. Just finished making the 160M module for my Sierra.

Is there any QRP activity on 160 to speak of?

Next question, anyone have any comments pro or con, on the S & S engineering TAC-1?

BTW, My SD20 pole for my SLV arrived today. Waiting for my W6MMA coil. Should be one heck of a boat antenna, with a saltwater ground....

|                                                                                                                                                               |                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <pre>  _ _ _ _ _ _ _ _ _ _<br/>   \           _     / _  <br/>   . '     _ _         \ _ _ \<br/>   _   \ _       \ _ _ /   _ _ /<br/>      G-QRP #9544</pre> | <p>John L. Sielke n4js@amsat.org n4js@pobox.com<br/>n4js@n4js.ampr.org NJ Grid:FM29LN<br/><a href="http://www.pobox.com/~n4js">http://www.pobox.com/~n4js</a> NJ-QRP #57<br/>QRP-L #884 QRP-ARCI #9328 NE-QRP #507<br/>Norcal #???? QCWA Life Member</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: PDouglas12@aol.com  
Subject: [14845] Steve Weber's Spectrum Analyzer!  
Message-ID: <970316094337\_108573167@emout06.mail.aol.com>

Hi Gang,

About four months ago, Steve Weber offered a limited run kit to build a real functioning Spectrum Analyzer Scope Adapter. (SA/SA for short) He had done one for himself, and wondered out loud here on the list whether others would like to buy a kit of parts and a pc board he had designed. About 25 or so of us took him up on the offer. This is a report on that project.

First, you may want to know what a Spectrum Analyzer is. An ordinary oscilloscope is designed to look at wave forms. You put a signal in a scope and you see a wave form like a sine wave. A Spectrum Analyzer does something different. It looks at a band of the RF spectrum and identifies each signal it sees as a vertical line above a horizontal (frequency) axis. The height of the vertical line depends on the strength of the signal it represents.

So, if you feed a clean signal generator into a regular scope, you see a single sine wave. If you feed it into a Spectrum Analyzer you see a vertical line above the horizontal axis, at the frequency of the signal. If you make the signal stronger, the vertical line on the SA gets taller. If you raise the frequency, the vertical line moves to the right. If you feed a "dirty" signal into a regular scope (not a pure sine wave, as when a transmitter is adjusted improperly) you see a distorted wave. But that signal will often break out into separate vertical lines on a spectrum analyzer, showing that the dirty signal is composed of a number of separate individual signals on various frequencies--usually the fundamental, plus harmonics and spurious "junk" signals. In other words, you can see where the extra signals are on the spectrum, and thus get some idea what the cause of the problem is.

A practical example would be the 38s. We all know now that the 38s needs proper adjustment and that one way to do it is with a scope. One can look at the signal on a scope and adjust the transmitter's trimmer cap for the best looking sine wave. But on the spectrum analyzer, when that trimmer is set wrong, I can actually see at least two extra signals above and below the correct one. They just up and disappear when the trimmer is right. What I thought was pretty neat was that I confirmed that you can usually get the same correct setting just by listening to another receiver for the cleanest sounding signal!

From the above, you may have gathered that my SA/SA is working. You bet it is. I can see on-the-air activity across the spectrum by just connecting my SA/SA to an antenna. I was able to see the results of adjusting my 38S, and I could see that the output of my Sierra is quite clean, despite pushing it to almost 5 watts on several bands. (Haven't finished that look-see yet. Will report on it later.)

The Weber SA/SA is an adapter which allows a regular scope to function as a

spectrum analyzer. The SA/SA kit consisted of a silk screened, double sided PC board (not plated through), all board mounted parts, and a construction manual. There were zero (that's right, none!) errors in the materials.

That, in itself, is an awesome accomplishment. The SA/SA is not intended to compete with units in the kilobuck plus range, but it does give excellent results in the HF range, and "sees" up to nearly 90MHz. The unit worked on turn-on, though I caused a few problems with an overvoltage in the power supply (my own fault). It worked with my good Tek 565 and almost as well with my old OS-8U Navy surplus scope. You ask what this kit cost? 80 bucks, ppd. I added a good instrument case, transformer, bridge, and IC voltage regulator, pots, connectors and ac cord. Total maybe ran around \$100. You can not beat that.

My conclusion is that while there may be some chaff here on QRP-L, the wheat is very rewarding. Unfortunately, I doubt Steve is willing to do any more kits, so this was a one time deal. But it sure was terrific. Steve Weber, thanks a million.

72,

Preston WJ2V

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: Jack Mc Kie <mjmckie@frontiernet.net>  
Subject: [14872] Straight Key Wanted  
Message-ID: <199703162204.RAA68850@node1.frontiernet.net>

I am looking for a straight key, preferably brass, older key is ok as long as it works. Please respond via e-mail direct.

Thanks!

73 Jack Mc Kie KC2BBW

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: ka0yos@arn.net  
Subject: [14826] Ten Tec 1330 VFO  
Message-ID: <199703160415.WAA05327@arnet.arn.net>

Howdy,

My father is building a Ten Tec 1330 up in KS. He is testing the VFO. Starting from the mid point when he turns the control clockwise the frequency goes down. When turning it back the frequency goes up til the

midpoint and then it starts down again. He says the frequency is right where it should be. This is the best I could make out over the phone.

Ant suggestions?

Thanks and 72,  
Joe ka0yos

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: ka7you@juno.com  
Subject: [14867] Toroid substitution  
Message-ID: <19970316.125254.6943.16.KA7YOU@juno.com>

As mentioned earlier, I failed to heed the warning in the LDG autotuner instruction manual. I dropped one of those little T50-2 cores. I thought I had a replacement in the junk box, but alas, it is a T68-2. I don't have any previous experience with toroids, so....

I have 'looked in the book' and find that the T50-2 shows 50uh per 100 turns, and the T68-2 specs at 57uh per hundred turns. I have the room for the bigger core, so I'm going to wind 29 turns on the T68-2 core instead of the 33 turns on the T50-2 as originally specified.  $33/100 \times 50 = 16.5\text{uh}$   $29/100 \times 57 = 16.53\text{uh}$

Am I doing this correctly, or am I missing something? It almost seems to simple.

7 3,

Rod Johnson KA7YOU CN97AK near Issaquah, Wa. 160M thru 1296 MHz  
NWQRP#120 ARCI#7251  
QRP-L#844

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: wj50@juno.com  
Subject: [14879] Trans-equatorial opening  
Message-ID: <19970316.172203.3614.4.WJ50@juno.com>

Just worked a QRP station on 10 CW PP5BRV Rod 28.052MHZ  
There were others calling CQ nearby.  
23:19 Zulu 16 March 97  
If you need Brazil- here's ur chance.  
de WJ50 Bill Corpus Christi, TX

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: ori@juno.com (Ori K Mizrahi-Shalom)  
Subject: [14812] Troubleshooting List for Norcal 38 Special  
Message-ID: <19950315.173758.4415.8.ori@juno.com>

I've been sending this list to people "in trouble" and it seems to help,  
so here is the missing page from you 38 Special manual...

ORI AC6AN

-----

### Troubleshooting the "38 Special" Transceiver

This text describes the basic troubleshooting procedure for you "38 Special" transceiver. There are different levels of tests possible, depending on the test equipment on hand.

In an attempt to simplify things, this text concentrates on the basic tools available to most potential builders of the kit. Brief references to more advanced tests are also included where appropriate.

#### General "dead" Transceiver Procedure

- (1) apply power briefly and touch all ICs. None should be more than luke warm. Anything else and you have a problem around the "hot" chip.
- (2) When any part of the design is suspected "dead" the first step is to test all power supply connections (referenced to ground):
  - (a) 12V at the power connector
  - (b) 8V at all ICs as follows (IC/pin):  
U1/8, U2/14, U3/8, U4/20, U5/8
- (3) Other DC voltages:
  - (a) verify about 4V at U5 pins 3 and 5.
  - (b) check the base of TR1 (2N3904, middle pin) as follows:  
about 0.6V on receive (key open)  
about 1.5V on transmit (key down)
  - (c) check U2/12, U2/13, U4/1, U4/13, banded side of D6:  
8V on receive (key open)  
0V on transmit (key down)
  - (d) check U2/5, U2/6, U4/7, banded side of D1 and D2:  
0V on receive (key open)  
8V on transmit (key down)
  - (e) check DC voltage on banded side of D3, while varying the tuning pot position for 0-8V voltage range.

Any problem with the DC voltage levels mentioned means you have something wrong in that area of the board. These tests can be done even with a cheap analog voltmeter.

- (4) verify sidetone with key down. If you hear the sidetone then the audio stage is OK and most likely U4 is not faulty.  
In general, we found that the ICs are very rugged. Do not remove an IC from the board before you have verified all components around it first!

### Basic Receiver Tests

It is assumed that DC tests checked OK.

- (1) First test that the headphone jack is compatible with the socket.
- (2) You should hear the sidetone with key down. This tells us that the audio amp circuit (U5) is functioning.
- (3) If no sidetone heard, the audio amp might be still OK:
  - (a) listen with the headphones while touching different places in the receive path with a metallic object (screwdriver, etc.). You should hear some noise in the headphones (possibly you'll pick up a local AM station, due to the high gain):
    - U5/2, U5/6
    - U2/10, U2/11, U3/4
    - U3/1, U2/2
    - U3/6, U3/7 (both are part of the 12.0 MHz oscillator)
    - U2/1
    - U1/4 (if U2/1 was OK and this one is dead, then check the crystal filter)
    - U1/6, U1/7 (both are part of the 22.1 MHz oscillator)
    - U1/1
    - banded side of D1 and D2
    - antenna connector (center pin)

The above procedure tests the receive chain "backwards". If you stop hearing at a particular point, check the circuit in between that point and the previous ("good") point.

- (4) If you have a general-coverage receiver, "listen" to the 12.0 and the 22.1 MHz oscillators around those nominal frequencies.  
Use a short wire for the antenna of the test receiver and place it close to the "38 Special" board, while applying power.  
Check that the 22.1 MHz signal varies when you change the position of the tuning pot.  
Check that the 12.0 MHz moves down about 600 Hz with key down vs. key open.  
This step verifies that the oscillators are functioning correctly.  
This step can be also executed with a scope and a frequency counter (make sure the probe is not too capacitive).

## Basic Transmitter Tests

It is assumed that DC tests checked OK.

- (1) You should hear the sidetone with key down, assuming you verified already that the audio amp is functional.  
Lack of the sidetone may mean that the sidetone circuit is faulty or that the U4 has some problem. Do not remove U4! Check all other components around it first.
- (2) With a general-coverage receiver, you should hear a carrier around 10.110-10.130 with key down. Tune the transmit trimcap TC2 and scan that range with a short wire as an antenna on the test receiver. You should use a 50 Ohm load for the "38 Special" for this test. In general, the sidetone on a stock kit will sound harsh when it's not tuned correctly, so this should be used as the first indication of correct transmitter tuning.
- (3) Verify that the oscillators are working correctly, as described in the previous section (basic receiver tests).  
The correct operation in receive mode is satisfactory.
- (4) All other transmit chain tests require a scope. Signal levels in the transmit chain are viewable on all scopes (at least 100 millivolts p-p)  
and should be easy to trace.  
You should be looking for a clean sinewave at the base of TR1 with key down, and check for about 2.5 p-p swing on its collector.  
On the dummy load at the antenna connector you should see a few volts p-p swing and very clean sinewave at the 10.110-10.130 MHz range.  
More detailed description of signals is beyond the scope of this basic  
debug procedure, and may appear in a future article.

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>  
Subject: [14865] twisted-pair answer  
Message-ID: <1997Mar16.152841-0500@[130.113.234.7]>

Silly of me to ask the question, "what the heck is a twist?" and then turn in an answer myself.

But then Dan Winkler wants to know too, and perhaps a few others.

Twisted some #28 enameled wires together and measured the impedance. Turns out that a twist is 180 degrees of rotation.

If you do wire twisting properly,

(by mounting a pair into a drill while clamping the other end) for every turn of the drill you get two twists.

Counting twists/inch amounts to counting the "bumps" along the wire pair. If this isn't clear, only a diagram would help.

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: James Parsons <k5rov1@worldnet.att.net>  
Subject: [14882] Wanted: Ten-Tec Century 22  
Message-ID: <1.5.4.32.19970316234358.00667f0c@204.127.3.1>

I am looking for a good Century 22 transceiver. I will either buy one outright, or trade a good Heath HW-8 plus cash.

I have used the HW-8 to talk around the world. It has no mods on the inside, as far as I know, and none on the front panel. On the back panel there have been placed the small 1/8" jacks in parallel with the original key and phone jacks, and a new standard DC connector to replace the plastic original one that is impossible to find. The new jacks will take connectors that can be bought at any Radio Shack. I have the schematic, and copies of the important pages of the manual (the constuction pages are not included). I have two of the HW-8's, and only need one...HI.

If you have a good C-22 you want to part with, please let me know.

Thanks and 73...

Jim, K5ROV  
EX: KA2FC (JAPAN), KA2JP (JAPAN), SVOWN (CRETE), SVOWN (RHODES),  
DL4NC, W1RLA, K4FEO, K5FBB  
John 3:16

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: k7yha@juno.com (Richard H. Arland)  
Subject: [14874] WTB: Icom V/UHF QRP Rigs (IC-202S/IC-502)  
Message-ID: <19970316.223739.9319.23.k7yha@juno.com>

Hi Gang:



Today I picked up a pristine IC-402 70cm QRP SSB/CW rig for our FD effort this year. I have a dire need for the IC-202S 2mtr and 502 6 mtr SSB/CW rigs, too.

I have been looking around my area and, outside of today's outstanding find (it was an absolutely pristine IC-402 in original box, with accessories and manual for \$125!) ,have not been able to turn up either a 202S or 502.

Of the two, I DESPERATELY need the IC-202S. The 502 can wait, as we have a MFJ 6 mtr SSB/CW rig coming for FD.

So, if anyone has an IC-202S (at this point I'll even consider the original IC-202 model) that they would like to sell, I have cash in hand.

WARNING! I don't want junk:

The rig needs to be clean, cosmetically a vy good to excellent, in working condition with no mods (unless done by Icom).

73 rich K7SZ

PS: Am also looking for the optional IC-3PS power supply (need two of them).

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997

From: TonyDrumm@ibm.net (Tony Drumm)

Subject: [14880] Yet Another NC38S Lives!

Message-ID: <199703162335.XAA78407@out1.ibm.net>

Well, I connected a stereo jack for the key (backwards - didn't notice the mistake in the manual where it says the hole DAH gets the dit, and the hole DIT gets the dah). While the iron was hot, I installed the bead which I had left off before. Seems to have reduced my max power a bit.

Anyway, I set it to about 1W and I turned off my TNC and computer display, eliminating the local noise, and tuned around this evening. Lots of QSB. Lots! But I heard NG30 calling CQ. So I answered and we had a nice, though short, chat. He gave me a 429 and I gave him a 579 - good signal except when it faded to almost nothing from time to time. But I'm pleased having a QSO with a board lying on the table and wires every which way to connectors and pots! Now, I have to do something about the lamps in the family room that come on and run through low, medium, and high as I carry on a 30m contact...

72.

Tony Drumm  
ARS AA0SM - Rochester, MN

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: "James S. Braun" <jsbraun@frontiernet.net>  
Subject: [14842] [Fwd: FS: Heathkit HW 8 (not working)]  
Message-ID: <332C16CF.13DE@frontiernet.net>

Path: node2.frontiernet.net!news.eznet.net!news.sprintlink.net!news-  
dc-5.sprintlink.net!newsrelay.netins.net!newsfeed.dacom.co.kr!nntp.kreonet.re.kr!  
usenet.kornet.nm.kr!howland.erols.net!newsxfer3.itd.umich.edu!  
portc01.blue.aol.com!spamz.news.aol.com!audrey01.news.aol.com!not-for-mail  
From: kk5lu@aol.com (KK5LU)  
Newsgroups: rec.radio.swap  
Subject: FS: Heathkit HW 8 (not working)  
From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: James Parsons <k5rov1@worldnet.att.net>  
Subject: [14807] Re: 30m fm  
Message-ID: <1.5.4.32.19970316010235.00674b88@204.127.3.1>

At 12:37 AM 3/16/97 +0000, you wrote:

>Has anyone else been hearing the FM broadcast on 30m (10.113)?  
>It is sorta having a detrimental effect on reception of qrp signals  
>(or qro, for that matter).  
>...rich

>

>-----

>Rich Dailey - KA8OKH <ka8okh@som-uky.campus.mci.net>  
>The KA8OKH Web - www.qsl.net/ka8okh  
>qrp-1 #933 ars #223 amsat #11900

>-----

>

>

Yes, I have been hearing it, but I did not realize what it was until I read  
your message. It sure is tearing up a lot of good space on the band!

Jim, K5ROV  
EX: KA2FC (JAPAN), KA2JP (JAPAN), SV0WN (CRETE), SV0WN (RHODES),  
DL4NC, W1RLA, K4FEO, K5FBB  
John 3:16

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: john andrews <jm165723@eee.org>  
Subject: [14808] Re: 30m fm  
Message-ID: <332B4698.3182@eee.org>

Rich Dailey, KA8OKH wrote:

>  
> Has anyone else been hearing the FM broadcast on 30m (10.113)?  
> It is sorta having a detrimental effect on reception of qrp signals  
> (or qro, for that matter).  
> ...rich  
>  
> -----  
> Rich Dailey - KA8OKH <ka8okh@som-uky.campus.mci.net>  
> The KA8OKH Web - www.qsl.net/ka8okh  
> qrp-l #933 ars #223 amsat #11900  
> -----

Hi Rich,

10.7 is the i.f. for most fm receivers. Did you check for overload?  
Might be swamping the front end.(10.240,10.920, others as well).

72, John- N5INZ

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: launerb@crl.com (William H. Launer)  
Subject: [14858] Re: 30m fm  
Message-ID: <v01530502af51e54e2cf5@[192.0.2.1]>

I also have been hearing the noise. After reading the postings on the subject, I tuned the SP-600 to the frequency, to see if it was peculiar to the 38S, or a "real" signal. It's "real". By slope tuning with the I.F. set at 8KHz, I discovered that it appears to be in Spanish. I don't understand Spanish, so couldn't identify the location.

72/73 Bill wb0cld

Bill Launer  
St. Charles, MO  
launerb@crl.com  
wb0cld@wb0cld.ampr.org [44.46.66.25]  
qrp-l #279 qrp arco #3551  
Grid Square EM48RT

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: Steve Bornstein <saborn@sreenet.columbus.oh.us>  
Subject: [14839] Re: 38S  
Message-ID: <Pine.3.07.9703160418.A2772-a100000@login>

Wayne et al,

You can also wind one on a T37-2 40 turns of #30. On my 38S I ended up with about 9.2 uh and a small 50pf cap in series. That allows me to set the bottom of the tuning range to 10.100 with the high end being 10.1197. I used a T37-2 with 47 turns of #30.

73 DE K8IDN STEVE QRP-L 331, ARCI 9059, NORCAL 1717, MIQRP, FISTS 2441,  
GQRP 8332, CQRP 1

On Sun, 16 Mar 1997 Wayneb1103@aol.com wrote:

> For those who are having trouble finding a moulded 6.8mH choke I was  
> wondering why one couldn't be wound on a T50-2?  
>  
> Is there some reason that you wouldn't want a torrid to be used as a choke?  
>  
> Wayne WB7WHI  
> Spokane, Wa.  
>  
>

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: "Steve Hurst" <shurst@magiclink.com>  
Subject: [14860] Re: 38S - 250 mw success?  
Message-ID: <199703161855.NAA49527@nss2.CC.Lehigh.EDU>

Himes wrote.....

-----

> Who is having success using the 38S at 250 mw ?

Well, I have not been setting the QRP world on fire with my 38S at 250mW, but I have made a few contacts. The band has not been in all that great of shape either, but was hearing VK's last night, they just couldn't hear me :-).

Today I worked Larry, NF0Z/7, in AZ. He gave me a 439 report, I am running the stock ver. of the 38S, and it seems to work well so far. No major problems from the get go, just had to wait on the new xtal's. BTW , my tuning range with the original 4.7uH choke ( L1 ) is now 10.100 to 10.121, not too bad. I have not checked it out on a scope as of yet , have been getting good reports, and it sounds well on the TS-430s. So guess I'm ok. Jumpered R-24 as per Ori's instructions, and the audio is fine. Would it be a crime to hook up a ( dare I say the word ? ) speaker to this rig ? Has anyone built an audio amp. to drive a small speaker ? I would like to monitor the band for openings when I'm in here reading the list or working on my web page. Good luck to all who are building 38S', it sure has been a fun little project for me ! It still is sitting here naked on the bench, I have yet to put it in the case !

CU on the bands !!!

73,  
Steve Hurst  
KA7NOC  
<http://www.magiclink.com/web/shurst>

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: herr@ridgecrest.ca.us (Michael Herr)  
Subject: [14837] Re> Backpacking antenna  
Message-ID: <v01530501af515255eb8b@[199.120.150.77]>

Been reading all the suggestions for a backpacking antenna, so I have to add my two cents in. Well, I enjoy backpacking and haming, but I hate the weight! Every trip I look for what I could have done better, simpler, making one item do the job of two. Anything to reduce the weight, then the hassle, and increase the enjoyment. Over the years I have fooled around with just about everything. I'm sorry folks, but the idea of carrying around a SLV on a 50 miler just isn't appealing! I've taken dipoles and long wires, tuners and no tuners. Here is where I have settled to.

Dipole, (typically 40 meters), feed with RG-174, no tuner. use 100 pound jacketed parachute cord (this is small stuff, not the 550# line you typically see) for the ends. Small wire, about #26, insulated for the antenna. No end insulators, just tied straight to the cord. I don't take a

wrist rocket or a special weight and I'd never throw my leatherman tool into a tree (might not see it again). I use a handy rock, tied to the parachute cord. No supports brought along, just what ever tree, bush, or rock wall available (have used tent poles as a support once tho).

The bottom line, it has always worked!

72

Mike WA6ARA

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997

From: w77kxb@juno.com (William Harris)

Subject: [14805] Re: Backpacking Antennas

Message-ID: <19970315.174914.4831.1.w77kxb@juno.com>

Brad: Regarding my remarks about an end fed wire, make it an odd 1/4 wl. for the band of operation. In fact, a few degrees longer will bring you up to the 50 ohm feed point with some inductive reactance which you could tune out with a small air variable condenser of about 250 mmfd. If you can live with the vswr, forget the condenser.

Bill W7KXB

Mesa, Az.

On Fri, 14 Mar 1997 22:26:12 -0500 (EST) Joe Everhart <n2cx@voicenet.com> writes:

>Brad,

>

>You queried about ideas for backpacking antennas. I am, of  
>course rather partial to lightweight dipoles fed with small  
>coax (like the PVC Gusher-II), but lately I've been focussing  
>on another option.

>

>An end-fed half-wave antenna is even lighter than the dipole  
>becasue it has no long coax feedline. You do need a tuner and  
>a counterpoise, though they can be simple. The tuner can be a  
>vary simple one like the Rainbow. and the counterpoise can be  
>a very unsophisticated 1/4 wave wire.

>

>The Rainbow pc board weighs less than 2 oz and even when  
>mounted in an Altoids tin, with a 12 volt lighter battery  
>comes in at about 4 oz. The small diameter hookup wire and  
>pvc pipe section insulators wire tip the scales at under a  
>half pound and fit in a small zip-lock bag.

>

>For 40 or 80, the wire can be as efficient as a dipole when  
>erected as an inveted vee or even better, a sloper.  
>  
>Check the next issue (April but no April fool!) of the NEQRP  
>newsletter 72 for an article on the EFHWA (End Fed Half Wave  
>Antenna).  
>  
>And you will \*hear\* one in QRP To The Field!  
>  
>  
>  
>72/73,  
>  
>Joe E., N2CX  
>  
>from Southern New Jersey, y'all  
>  
>work: jeverhart@cayman.vf.mmc.com  
>home: n2cx@voicenet.com  
>  
>  
>  
>  
>

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: Joe Everhart <n2cx@voicenet.com>  
Subject: [14825] Re: Backpacking Antennas  
Message-ID: <199703160420.XAA04744@mail3.voicenet.com>

At 07:59 PM 3/15/97 EST, you wrote:

>Brad: Regarding my remarks about an end fed wire, make it an odd 1/4 wl.  
>for the band of operation. In fact, a few degrees longer will bring you  
>up to the 50 ohm feed point with some inductive reactance which you could  
>tune out with a small air variable condenser of about 250 mmfd. If you  
>can live with the vswr, forget the condenser.  
>  
>Bill W7KXB  
>Mesa, Az.  
>

Bill and Brad,

My preference is for the half wave antenna since it is much more  
ground-independent than the quarter wave. I agree that it is attractive  
to match a quarter wave antenna, but the problem is that efficiency can

be very poor with the typical simple ground system possible in backpacking situations. The ARRL Antenna book estimates that quarter wave antennas with ground systems on the order of 10 quarter wave radials may be less than 50% (in fact I think they say less than that, but my book isn't handy). Now using a ground system with fewer radials may be proportionately worse! Sure, it may match very well, but most of the power will be wasted!

On the other hand, the half-wave antenna uses a counterpoise or simple ground system primarily to decouple the feed system from the antenna. Even with a ground resistance of 50 ohms, loss will be negligible with an end-fed antenna whose radiation resistance is 1000 ohms or more.

Plus, with the half-wave wire, radiation takes place high up in the air. With a quarter wave wire, it is right at ground level where it can be absorbed by surrounding objects.

Anyway that's how I see it. :-)

72/73,

Joe E., N2CX

from Southern New Jersey, y'all

work: jeverhart@cayman.vf.mmc.com

home: n2cx@voicenet.com

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997

From: VE3JC John <jbcumming@wwdc.com>

Subject: [14853] Re: Backpacking Antennas

Message-ID: <332C2414.7743@wwdc.com>

Bradley S. Mitchell wrote:

>

> Any great ideas out there for backpacking

> antennas?

I too have been enjoying the discussion regarding backpacking antennas, and thought I would throw in my 2 mW worth ....

Choice of backpacking antenna (and rig, for that matter !) varies



with personal preferences. For me, multiband capability is important, and ultralight weight is not the primary objective (obviously! since I lug a QRP+ ... the Sierra looks like the way to go...) Anyways, a single band rig/antenna is no fun on a canoe trip if the band closes half an hour before the tent is pitched, and it can be frustrating being stuck on a lower band if a rainy day keeps you huddled in the tent through the daylight hours!

My choice for practical, reasonably light weight and versatile mult-band antenna is the "8-Band Backpacker Special" described in June 1994 QST. This is essentially a 20m/40m fan dipole with extensions using alligator clips, to give the desired band from 10 to 80 meters. The author, wb0krx, uses magnet wire and 174/u coax - I have used #28 teflon insulated wire and 25' of 174, with a 10' add-on of rg58. Set-up is extremely simple - get the centre insulator (made of a scrap of plexiglass) as high as possible, tie off the ends of the 40 m dipole into convenient trees with long pieces of small diameter nylon cord (so that when the 80m extensions are clipped on to the 40 m element, they can be held up by the nylon cord). The antenna, all extensions, and the cord all fit in a large zip-loc bag. Height, topography, etc will affect swr, but small (eg 6 inch) extensions can be used for "fine tuning". The Apr/94 article has numerous other tips, and makes good reading (especially when a late winter ice storm makes it look like backpacking and canoeing are a ways off!)

72 & 73, John

\*\*\*\*\*

VE3JC - JOHN CUMMING

192 WELLINGTON ST. DELAWARE, ON CANADA, N0L 1E0

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997

From: Bob Tellefsen-CNSE97 <Bob\_Tellefsen-CNSE97@email.mot.com>

Subject: [14819] Re:Caltech and the NorCal 40A

Message-ID: <M1338582.003.48192.1.970316025333Z.CC-MAIL\*/OU=LMPCC10/OU=ILBE/

PRMD=MOT/ADMD=MOT/C=US/@MHS>

Wayne, what a fantastic accomplishment.

Everyone would like to do something that will leave a lasting mark somewhere, and this should certainly be one for you.

Certainly, if the professor's philosophy takes hold and the students discover the fun of making something work with their own hands, we may see a few new hams out of it as well.

As one who has interviewed many graduating engineers, I truly feel there aren't nearly enough who know which end of the soldering iron gets hot.

Again, congratulations on a marvelous coup.

73, Bob NM6WG

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: Bill Meahan <wmeahan@wa8tzg.mi.org>  
Subject: [14806] Re: Caltech and the NorCal 40A: New EE20 Curriculum!  
Message-ID: <332b42ad.wa8tzg@wa8tzg.mi.org>

On 14 Mar 97 at 23:31, L.Svec,W.Burdick wrote:

[snip]

> I have suggested to Prof. Rutledge the possibility that some in the  
> amateur radio community, especially those who build their own gear  
> or would like to, might be interested in purchasing the EE20 course  
> book directly from Caltech. This is not usually done, but he'd like  
> to determine if there is such interest. Please send me e-mail with  
> your comments on this, and I'll summarize them for him.

WOW! what a terrific idea! I'd **\*\*LOVE\*\*** to be able to buy this  
material, whether from Caltech directly, from Wilderness (produced  
under license) or whatever. Sign me up! Now!!

Such material is sorely needed in the amateur community, PARTICULARLY  
for those of us who are technically oriented, but not EE's (and never  
will be). (I'm a "corporate" computer weenie who used to be a  
manufacturing engineer and holds a degree in Physics). The ARRL  
Handbook is great reference material and so is Solid State Design,  
but neither are sufficient to teach one how to go about designing  
one's own equipment.

Great job, Wayne!!

72 de wa8tzg

--

Bill Meahan WA8TZG wmeahan@wa8tzg.mi.org  
ARRL, IMRA, QRP-L(#117), NorCal QRP (#407), G-QRP (#8468), MI-QRP (#M1458)  
All statements herein are worth exactly what you paid for them  
cat: a purr bearing mammal

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997

From: "Mark S. Adams" <msadams@acsu.buffalo.edu>  
Subject: [14809] Re: Caltech and the NorCal 40A: New EE20 Curriculum!  
Message-ID: <Pine.GS0.3.95.970315200630.8195A-100000@conciliator.acsu.buffalo.edu>

Hi Gang,

I work for the University at Buffalo and can say that any text in the bookstore can be purchased by anyone. I am sure other Universities are the same.

If someone who lives near the University takes the lead we can work a group buy. Get orders in early for the fall semester, early enough that the prof can order the right number of books and when they come in have "our man" pick them up and mail them out! That is of course if we cannot simply buy them mail order from the publisher.

Say, does any know the ISBN for this book?

72, Mark N2VPK  
Member of the Buffalo QRP Connection

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: gsurrency@juno.com (Gary L Surrency)  
Subject: [14817] Re: FCC to license computers  
Message-ID: <19970315.193950.9958.7.gsurrency@juno.com>

Can we end this thread now, please?

Gary Surrency AB7MY  
S&S TAC-1(40&80m) and ARK30, OHR100 20m, AT-11 (QRO and QRP)  
QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH  
Az ScQRPions

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: Jim Bennett <jbennett@ebmud.com>  
Subject: [14810] RE: FS, my OHR-400, Tuner, TNC  
Message-ID: <332B4DB9.4A10@ebmud.com>

The OHR-400, Kam+ TNC, and MFJ tuner have been spoken for. I will keep on file any other requests that come through, just for backup.

Thanks a bunch, folks!!! :-)

```
*-----*
|               Jim Bennett / W6JHB               |
|               jbenett@ebmud.com                 |
|               Martinez, CA                     |
|               |                                 |
|   NWQRP #431   QRP-1 #596   ARRL Life Member   |
*-----*
```

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: Ken Lopez <kjlopez@earthlink.net>  
Subject: [14863] Re: HamStick/BugCatcher  
Message-ID: <332C52C5.F8C@earthlink.net>

James W. Cates wrote:

>

> I use a HamStick mag mounted on the roof

> I find it agonizing to think this antenna is 10db down as compared with a  
catcher of bugs.

For those who have not followed the lore of of mobile antennas over the  
years, I have compiled some data from actual field strength tests over  
the years, as well as a few pearls of collected wisdom. I have been  
running mobile HF for just shy of ten years, and so am considered a  
"newbie" by some of the old timers such as Don Johnson, W6AAQ, who  
invented the "Screwdriver" antenna among others.

For reference, I suggest you get any of Don's books on mobile antennas,  
such as "40+5 Years Of Mobileeering" which is out of print, but often  
seen at hamfests. Also, a very important article by Bob Sherwood, of  
Sherwood Engineering, appeared in Ham Radio, Sept 1989. If you would  
like a copy, send me an SASE and I will get it out to you. This info  
will explain what is going on with antennas like the St Louis Vertical,  
and how some of the new coil mods will improve its efficiency. The SLV  
is very similar to many center-coil loaded mobile antennas.

Over the years it has been found that the best mobile compromise in  
antenna shortening, vs. efficiency, vs. mechanical "workability", is the  
center coil loaaded vertical, with some base matching. Coil Q is very  
important, in that efficiency increases with Q. It is generally  
accepted that High Q coils maintain a spacing of 6 turns per inch or  
greater, use large wire, and also maintain an aspect ratio of close to  
one to one, meaning that the coil height vs diameter is roughly equal  
where possible. So, if you need a longer coil with more turns, make the  
coil diameter greater. This means that coils that are wound with small

wire, close spaced, on small diameter forms, suffer. This would include Hustlers, Spiders, Outbackers, and Hamsticks.

Also, the height of the coil vs. the roofline of the vehicle is important. Bumper mounted antennas will be improved 1-2dB by either roof mounting, or extending the Base section enough to get the coil at or above roofline where ever practical. So, Jim's Hamstick gets about a 2 dB improvement by roof mounting!

The real game here is finding a dB here and a dB there, and adding them all up to give as much as 2+ S units improvement, especially on 40M, 80M, and below, where antenna size is a smaller and smaller increment of a full wavelength. I have a 160-10M 3" coil screwdriver, which gives some pretty creditable performance. 160M mobile is a real blast! It is, however, rather large, and is not often mounted on the Jeep. I also use a custom 2' coil variant of the screwdriver built by a friend, Gary Stookey, KI7SD.

That brings up the area of aesthetics, mechanics, and personal suitability. The "best" antenna is whatever will do the job reasonably well, and conform to your idea of acceptable trouble, good looks, performance, and cost. We all know that a four element 40M beam at 100 feet is better than an Inverted Vee, but few of us bother with one for the above reasons.

So, keep all of the above in mind as you read the following data. Numerous field trials and field strength measurements have been conducted over the years. I have participated in some, and the knowledge gained by changing parameters such as whip length, base height, capacity hats, etc. can be enormous. Seeing the effects on the field strength meter as you make the changes is very enlightening!

So, here are the results from one such test, at which I was not present. The reference antenna was: Base 6'X 1" SS pipe, mounted 4' above roadway. Center coil was 3" dia., 13 turns #12 copper, 2 1/2 " high. Whip on top was 102" SS. Antennas were all resonated to 7.125 Mhz. matched with L-net at base to 1:1 SWR. All measured antennas were mounted on the same base, tuned, and input power measured at 50W with Bird Wattmeter. Field Strength Meter was custom, calibrated, and built by Bill Cantrell, W6VRW. Bill is a career engineer with much broadcast and lab experience. Results:

|             |   |        |                                     |
|-------------|---|--------|-------------------------------------|
| Reference   | - | 0dB    | Bugcatcher style                    |
| Screwdriver | - | 2dB    |                                     |
| Bandspanner | - | 3dB    | Old mobile antenna with center coil |
| KW Hustler  | - | 4.75dB |                                     |
| Hustler     |   | - 6dB  | Spider antenna would be identical   |
| Ham Stick   | - | 8dB    |                                     |

102" Whip                    -13dB (Base loaded only) SGC QMS system-CB Whip

I think the results speak for themselves. Remember, I am only the reporter. Don't shoot me if your favorite antenna did not measure well! Also, the individual mounting scheme will often play a large part in your success and can change the results greatly. The above will be about the best you can expect. For example, bumper mount the Hustler on a shorter base, and expect another 2-3dB loss. Raise the Hustler to a roof mount and improve 1-2dB.

I will say that over the years I have owned most of the above antennas, and had a great time with all of them. I currently use a screwdriver, having deemed the Texas Bugcatcher too troublesome. They will all make contacts. My first mobile DX was with a Hustler, on 10M, running 10W SSB to Russia. I worked the same guy on 20M an hour later. What fun. I didn't know or care about being 6dB down. I worked 'em!

Cheers,  
Ken, N6TZV

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: n0acs@juno.com (John R. Morris)  
Subject: [14823] Re: HW-9 Wanted  
Message-ID: <19970315.215257.5471.1.N0ACS@juno.com>

Hi Dick, In the meantime have some fun.....build yourself a mono-band xcvr. Lots of nice boards are available. Hope you have lots of enjoyment on qrp. 73 John

On Fri, 14 Mar 97 16:30:54 PST "Dick Dillman" <ddillman@igc.apc.org> writes:

>  
>Greetings, guys. Well, now that I have the QRP bug I obviously need  
>my first QRP rig. For some reason I've become strangely attracted to  
>the Heath HW-9. If anyone knows of one needing a new home I'd  
>appreciate hearing about it. Extra points for the WARC version, of  
>course.

>

>Regards,

>

>Dick

>

>                    Dick Dillman  
>                    WPE2VT W6AWO

>                    <ddillman@igc.apc.org>

>                    Collector of Heavy Metal:

> Harleys, Willys and Radios Over 100lbs.  
>  
>  
>

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: "Ed Manuel" <n5em-qrp@msn.com>  
Subject: [14881] RE: Icom V/UHF QRP Rigs (IC-202S/IC-502)  
Message-ID: <UPMAIL06.199703162339330608@msn.com>

Rich,

Good luck. Rare as hens teeth and twice as valuable. I think Zack Lau bought them all up. I'd recommend you get a copy of the current "yellow sheets". Now, you will probably get two offers in two hours. Just trying to help :-)

Ed, N5EM

-----  
From: owner-qrp-1@Lehigh.EDU on behalf of Richard H. Arland  
Sent: Sunday, March 16, 1997 4:31 PM  
Subject: WTB: Icom V/UHF QRP Rigs (IC-202S/IC-502)

Hi Gang:

Today I picked up a pristine IC-402 70cm QRP SSB/CW rig for our FD effort this year. I have a dire need for the IC-202S 2mtr and 502 6 mtr SSB/CW rigs, too.

I have been looking around my area and, outside of today's outstanding find (it was an absolutely pristine IC-402 in original box, with accessories and manual for \$125!) ,have not been able to turn up either a 202S or 502.

Of the two, I DESPERATELY need the IC-202S. The 502 can wait, as we have a MFJ 6 mtr SSB/CW rig coming for FD.

So, if anyone has an IC-202S (at this point I'll even consider the original IC-202 model) that they would like to sell, I have cash in hand.

WARNING! I don't want junk:

The rig needs to be clean, cosmetically a vy good to excellent, in working condition with no mods (unless done by Icom).

73 rich K7SZ

PS: Am also looking for the optional IC-3PS power supply (need two of them).

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: "Arjen Raateland, SYKE/YV, puh. 09 4030 0457" <Arjen.Raateland@vyh.fi>  
Subject: [14840] Re: Keyer modes: A vs. B?  
Message-ID: <01IGKI5LAYII8Y74QT@vyh21.vyh.fi>

> It seems that this subject comes up about once a year. A lot of the arguments  
> sound more theological than practical.

> Like Wayne, I just can't get the hang of Mode B. I have an old AEA Morsematic  
> (Mode B) that I can only use if I turn the dash memory off!

> My pet theory is that folks who learned to send with a bug (electromechanical  
> keyer, sonny!) are more comfortable with Mode A. Those whose first effort  
> with  
> a keyer is electronic prefer Mode B. Any comments?

John and gang,

There is more to it than simply mode A or mode B, I think. E.g. the CMOS Super keyer III has 10 different mode settings emulating several types of other keyers. The differences in behaviour are related to differences in timing algorithms. I would say some mode B keyers may well suit a particular user better than other mode B keyers.

I once ordered a simple iambic keyer kit that turned out to be a mode B keyer with just a few standard CMOS IC's in it. It had very intolerant timing that couldn't be changed and I haven't used it ever, because it's just awful. It's timing is similar to the Curtis mode B timing, but probably worse. I couldn't use Curtis Mode B either. Yet, the KC-1 keyer I have in my Sierra is in mode B and my CMOS Super keyer in it's own mode (V0), which is also a flavour of mode B. These last two seem to have similar timing.

BTW. I have never seriously used a straight key. I chose to learn sending with my left hand, so I would eventually be able to use my right hand for writing and not have to put down and pick up a pencil all the time.



Further I assumed that the thumb is less dexterous than the forefinger so I chose the thumb to do the dashes. The standard way of wiring dot and dash sides to paddles is probably a result of imitation rather than of research into what is easiest, anyway. The CMOS Super keyer III makes reversing the paddles easy, so there was no need to stick to a convention, really.

There were no instructions about how to get the most benefit from an electronic keyer, i.e. how to slap and squeeze to form particular characters. I suppose one could just slap the paddles left and right for each and every character w/o ever squeezing them, but that didn't make much sense to me. I compared how to send characters in different modes and with different timing with the simplest finger movements.

In my experience essentially each character had to be learned separately. The lack of detailed instructions about how best to use the paddles with a particular electronic keyer seems strange.

My \$ 0,02 worth.

73, OH2ZAZ

Arjen Raateland

--... --- --... --- ..--- ---.. - - --..

Finnish Environment Institute, Helsinki, Finland

SAS Support

EMAIL: Arjen.Raateland@vyh.fi

tel. +358 9 4030 0457

fax +358 9 4030 0490

..--.. --..

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997

From: "Carol N. Wright" <cnw@hiwaay.net>

Subject: [14868] Re: NC38S, still problems!

Message-ID: <Pine.OSF.3.94.970316144239.27435A-100000@fly.HiWAAAY.net>

On Sun, 16 Mar 1997, Roger Hightower wrote:

> Don't forget the step about tuning TC2 for the best sidetone. That's  
> probably where the squeal is coming from. When it's mis-tuned, the  
> sidetone is pretty harsh. -- 72/73 de Roger N7KT

Hey Roger and Gang,

Ok, I've done some more thinking about my problem, smoked a cancer stick. Just kidding, had some coke and chips. Hee Hee! It still gets the real bad squeal when I am on receive. I started touching the IC's to see if

they were warm or hot, there weren't. I put my hand towards the back section of the HC240, it stops. But then it comes back. It is like I get the squeal, but I can stop it for a minute or so by putting my hand on some of the pins of the HC240, then it comes back. You are probably right on the TC2 needing tuning. On transmit it still is putting out low power, but the tone is bad also. I removed the 100pF padder cap across the 220pF at C26 to see if that was causing it, it didn't help, I got to resolder the cap. So what next? I'm going to keep on debugging, even if it takes me 10 years, I'll get it going one way or the other. Thanks for all the help. Any comments, suggestions are more than welcome as always. Best 72 DE Matt, AE4JM Also I forgot to mention that the HC240 pins are reading the correct voltage, 8 volts. That is the pins that are suppose to be checked in the debugging technique. Tnx. CUL . .

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: "Brian K. Short KE7GH" <ke7gh@primenet.com>  
Subject: [14856] Re: QRP or Low Power (Delayed)  
Message-ID: <3.0.32.19970316172737.006b536c@mailhost.primenet.com>

At 11:47 PM 3/15/97 -0800, you wrote:  
>Hello Brian,  
>I posted this response to the list last week,  
...snip...  
>I did read your comments, and that I thought they were most  
>certainly worthy of a response.

Well thank you very much! It may be better to let this one die of natural causes, and then not whip it...

I'm certainly no philosopher and I have been in the QRP game only for a very short time, but my opinions are valid from that (albeit) limited context. I think we violently agree...

>It seems to me that your way of thinking would do away with all  
>forms of classification of people.

Would that be so bad?

>Radio in general is a large and diverse hobby.

We agree.

>Yet we distinguish between Shortwave Listeners, Hams, and CBers.

Well, casually so, but as far as a "Conventional QRP Philosophy" (with capital letters) there can be no formal definition, right? I am at times a Father, a Husband, a self-proclaimed Internet QRP Philosopher, etc...

>I happen to believe that there are differences between QRPers, >and Low Power Operators, and I don't see how the largeness or the >diversity of the hobby changes that.

By your own definitions, yes, but the definitions and differences are artificial. Why not concentrate on similarities?

>I don't think that you have established that my definitions >of QRPers, or Low Power Operator are based on stereotypes.

No, I didn't, but these are just your notions of how you classify folks based on a rather small dimension of their personality.

>If a Policeman asked me why I was at my work location, I >would probably explain that I was a Test Engineer, and an >employee at the company.

I'd just say I work there...

>And when I was in the >Marine Corps, if my DI ran up to me and demanded to know >who left that God awful thing floating in his toilet, I >would want him to know that I was definitely a Flusher.

I like that!

>Labels only work in the proper context. In the context of >Amateur Radio Operating, I am a Low Power Operator.

If that is how you want to think of yourself, but I just bet you would have trouble getting EVERYONE to unanimously agree to the precise definitions of the classifications you set down...

There is already the notion of "Appliance Operator" with negative connotations rather implied by many.

>>All I know is that when I solder together a \$25 kit and then get on the >>air with it and talk to someone far away, it seems like QRP to me and could >>care less about someone else's pre-conceived notions or stereotypes.

>

>Wow, your definition of QRP is not really different from mine. [smile].

Probably not. We violently agree, but SOME may say that merely stuffing

a few components into a circuit board is not \*really\* QRP. Or others may claim that given the extent and degree of integration in modern semi-conductors, it is not \*really\* homebrew.

I never met anyone (personally) who made their own vacuum tubes (valves), though either, but there are probably a few.

>>\*\*\* Hi, my name is Brian and I'm a powerholic... \*\*\*  
>Hi Brian.... [smile].

Call it what you may, the only thing I offer is:

- 1) if it feels good, do it (so to speak)
- 2) live and let live
- 3) don't sweat the small stuff

Have you considered changing your name from Max to Min? ;^}

73, Brian (self-proclaimed amateur radio philosopher, esp QRP)

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: Dan Hogan <dhhogan@lightside.com>  
Subject: [14859] Re: QRP or Low Power (Delayed)  
Message-ID: <3.0.16.19970316104223.347f5e7c@mail.lightside.com>

Relax. We were probaly the last to order. It's only Jim and no one else to help. It'll come as soon as he gets to it. I don't thonk he has ever missed a shipment.

72/73

Dan Hogan WA6PBY QRP-L #558, CQC #340, NorCal #1806,  
dhhogan@lightside.com ARRL, ARCI #3847, G-QRP #9533, FISTS #2949  
Lat. 34d 03.5'N Lon. 117d 56.0'W Grid: DM84wc

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997  
From: JC\_Smith@designlink.com (JC Smith)  
Subject: [14818] Re: Re: [TowerTalk] Antenna Modeling Programs  
Message-ID: <1226633214.32510327@designlink.com>

>> Interesting. I wonder why it is that there does seem to be a diffeence when  
>> the wire is being used as the center conductor in coax cable. Eg: the  
>> difference in performance between LMR-400 and LMR-400 ultra flex. The  
>> stranded wire should have more surface area and thus better performance,

but

>> the opposite is apparently true. Then when you go from the 7 strand to the 19

>> strand center conductor (if you can find it) the performance supposedly goes

>> back to near that of the solid wire.

>19 conductor stranded will have less exposed surface area than 7

>conductor. Here, count only the out exposed surface, not the surface of

>each wire. Smaller diameter strands means smaller undulations in the

>outer surface in contact with the dielectric; a closer approximation of

>solid wire.

>LB

LB, thanks for replying. This is logical, and easy to see. What I don't understand is why this gives lower losses. I thought you got lower losses by increasing the surface area. (Yes, there is more to it than that, but all else being equal... ?) - JC

--- Internet Message Header Follows ---

Received: by bdt.bdt.com (/oo/\ Smail3.1.29.1 #29.6)

id <m0w64va-001NtLC@bdtd.bdt.com>; Sat, 15 Mar 97 17:40 PST

Received: from noident@utkux4.utcc.utk.edu(128.169.76.11) by bdt via smap (V1.3bdt)

id sma004308; Sat Mar 15 17:39:04 1997

Received: from localhost by utkux4.utcc.utk.edu with SMTP (SMI-8.6/2.7c-UTK)

id BAA24579; Sun, 16 Mar 1997 01:38:55 GMT

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997

From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>

Subject: Re: Re: [TowerTalk] Antenna Modeling Programs

Message-ID: <Pine.SOL.3.94.970315203504.24067A-100000@utkux4.utcc.utk.edu>

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997

From: k5hj@juno.com (Charles R. Ott)

Subject: [14832] Re: Ten Tec 1330 VFO

Message-ID: <19970314.232045.10102.0.k5hj@juno.com>

Joe:

Could the tuning pot be wired wrong? I would check the voltage going to the varactor while turning the knob and see if it is following the same

pattern as the frequency change you mentioned. If so, it is probably the wiring to the pot.

BTW I reversed the tuning pot on mine from the way the instructions tell you to do it. It tuned 'backward' from what I wanted.

On Sun, 16 Mar 1997 00:19:09 -0600 ka0yos@arn.net writes:

>Howdy,

>

> My father is building a Ten Tec 1330 up in KS. He is testing

>the

>VFO. Starting from the mid point when he turns the control clockwise

>the

>frequency goes down. When turning it back the frequency goes up til

>the

>midpoint and then it starts down again. He says the frequency is

>right

>where it should be. This is the best I could make out over the phone.

>

> Ant suggestions?

>

>Thanks and 72,

>Joe ka0yos

>

>

Charles R. (Randy) Ott - K5HJ - QRP-L #1040

Duncanville, TX

k5hj@juno.com

Send Email with attachments to [isc@fastlane.net](mailto:isc@fastlane.net) (Juno can't handle them)

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997

From: ka7you@juno.com

Subject: [14876] Re: Toroid substitution

Message-ID: <19970316.145811.6943.18.KA7YOU@juno.com>

Glenn,

If I read what your saying correctly, 10 turns does not get me twice as much inductance as 5 turns on the same core. Is that correct?

Later...

Upon re-reading your post, and the toroid data charts in Component Data chapter in the Handbook, I think I see what you are saying. Not only did I mis-calculate what the original inductor value was, but by trying to convert to the other core, I complicated the matter even farther. I'd have been way off.

If I had thought to look at the schematic, I would have realized

something was amiss, because it shows the inductor as 5.0 uH.

To make sure I am doing this correctly; if I wanted 10 uH on the T68-2core, I would need 41.9 (42)windings. Does that look right?

I CC'd this to the reflector because it might be of interest to others who are a little intimidated by these slippery little guys.

The other day I was at a surplus house with many different sizes and types of cores-except T50-2 of course. There was a young lady buying them by the handful for "Hippie Beads".

Thanks for your input.

73,

Rod Johnson KA7YOU CN97AK near Issaquah, Wa. 160M thru 1296 MHz  
NWQRP#120 ARCI#7251  
QRP-L#844

On 16 Mar 1997 16:21:30 -0500 Glen Leinweber

<leinwebe@mcmill.CIS.McMaster.CA> writes:

>In <19970316.125254.6943.16.KA7YOU@juno.com>, ka7you@juno.com wrote:

>

>> I have 'looked in the book' and find that the T50-2 shows 50uh

>per

>>100 turns, and the T68-2 specs at 57uh per hundred turns. I have the

>>room for the bigger core, so I'm going to wind 29 turns on the T68-2

>core

>>instead of the 33 turns on the T50-2 as originally specified.

>33/100 X

>>50=16.5uh 29/100 X 57=16.53uh

>> Am I doing this correctly, or am I missing something? It almost

>>seems to simple.

>

>Life is NEVER so simple. Yes, you did miss something...inductance

>varies as the SQUARE of the # of turns.

>

>so perhaps 100 turns gets you 50uH for the T50-2

>but 50 turns would NOT give you 25uH, but 12.5uH

>and 33 turns would give 5.445 uH.....that's  $(33 \times 33 / (100 \times 100)) \times 50$

>

>so for the T68-2, you'll need about 31 turns. That's

> $\sqrt{5.445 \times 100 \times 100 / 57}$

>or doing it your way:  $(31 \times 31 / (100 \times 100)) \times 57 = 5.4777 \text{ uH}$

>

From owner-qrp-l@Lehigh.EDU Sun Mar 16 18:04:00 1997

From: kt3a@juno.com

Subject: [14822] Re: torroid fever????? solution !!!!!

Message-ID: <19970315.222317.5407.0.kt3a@juno.com>

Phil and QRP builders,

When I toured the Ten-Tec company, I asked how they wind toroids for their rigs. I was told that they do them by hand. I asked if there was is a machine that can do them. They said yes. My next question was.....Why do them by hand when you can have a machine make them? They told me that you just don't get the quality windings that you do with the fine hand work of their assemblers. I think I'll stick to doing 'em by hand too.

72, Cam, kt3a

On Fri, 14 Mar 1997 01:33:40 -0700 "Phil, K6LS" <k6ls@amsat.org> writes:

>Those of you who may fear the winding of torroids after an  
>experince with the NorCal Sierra or any other HB kit may  
>want to take a look at Surplus Sales of Nebraska's web  
>site. They have just the machine for you.  
>  
>here is the url:  
>  
><http://www.surplussales.com/equipment.html>  
>  
>at \$750 it may be a bit expensive, but hey, your sanity is worth  
>something, isn't it????? ;-)  
>  
>  
>HI, 72 de Phil K6LS  
>  
>

From owner-qrp-1@Lehigh.EDU Sun Mar 16 18:04:00 1997

From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>

Subject: [14811] Re: [TowerTalk] Antenna Modeling Programs

Message-ID: <Pine.SOL.3.94.970315203504.24067A-100000@utkux4.utcc.utk.edu>

> Interesting. I wonder why it is that there does seem to be a diffeence when  
> the wire is being used as the center conductor in coax cable. Eg: the  
> difference in performance between LMR-400 and LMR-400 ultra flex. The  
> stranded wire should have more surface area and thus better performance, but  
> the opposite is aparently true. Then when you go from the 7 strand to the 19  
> strand center conductor (if you can find it) the performance supposedly goes  
> back to near that of the solid wire.  
19 conductor stranded will have less exposed surface area than 7



conductor. Here, count only the out exposed surface, not the surface of each wire. Smaller diameter strands means smaller undulations in the outer surface in contact with the dielectric; a closer approximation of solid wire.

LB